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BULLETIN NO. 203A

PHOTOGRAPHIC DIVISION
GENERAL ELECTRIC
VAPOR LAMP COMPANY

HOBOKEN, NEW JERSEY

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PHOTOGRAPHIC LAMPS

COOPER HEWITT LIGHT



in commercial
photography

COOPER HEWITT LIGHTS ARE BETTER THAN DAYLIGHT

THE FRANKLIN INSTITUTE

COOPER HEWITT PHOTOGRAPHIC LIGHTING UNITS

In the field of Commercial Photography speed in production and absolute certainty of results are essential to success. This means that the commercial photographer must have a photographic light on which he can rely twenty-four hours a day, any day in the year. Cooper Hewitt light has built up business for many commercial photographers through its reliability under all circumstances. In catalogue work, Cooper Hewitt light has the ability to bring out detail to an unusual degree, show contours and penetrate the recesses to an extent far beyond other forms of illumination. Manufacturers and commercial houses having their own photographic departments will find that the adoption of Cooper Hewitt lamps will not only make better work possible, but will also result in a great economy in the saving in current bills.

The line of units shown have been developed with the needs of the commercial field in mind. These models are neater in appearance, easier to handle, all metal and thus fireproof. The reflector tube holders are mounted on automatically balanced tilting mechanisms which make adjustment for tube position easy and rapid. Reflectors

are forward tilting and can be set from horizontal to vertical. The reflectors can be raised or lowered to positions from 4 to 6 feet from the floor.

A new style auxiliary has been adopted which makes a great improvement in operation. Adjustment for voltage regulation is automatic and requires practically no attention from the user. The auxiliary is mounted at the base of the stand, making the unit more stable. The stand is mounted on high grade, rubber-tired, ball-bearing castors, making the unit easy and quiet to move.



Fig. 1—Unit No. 160—6 PH 7 with Reflector Vertical on Stand

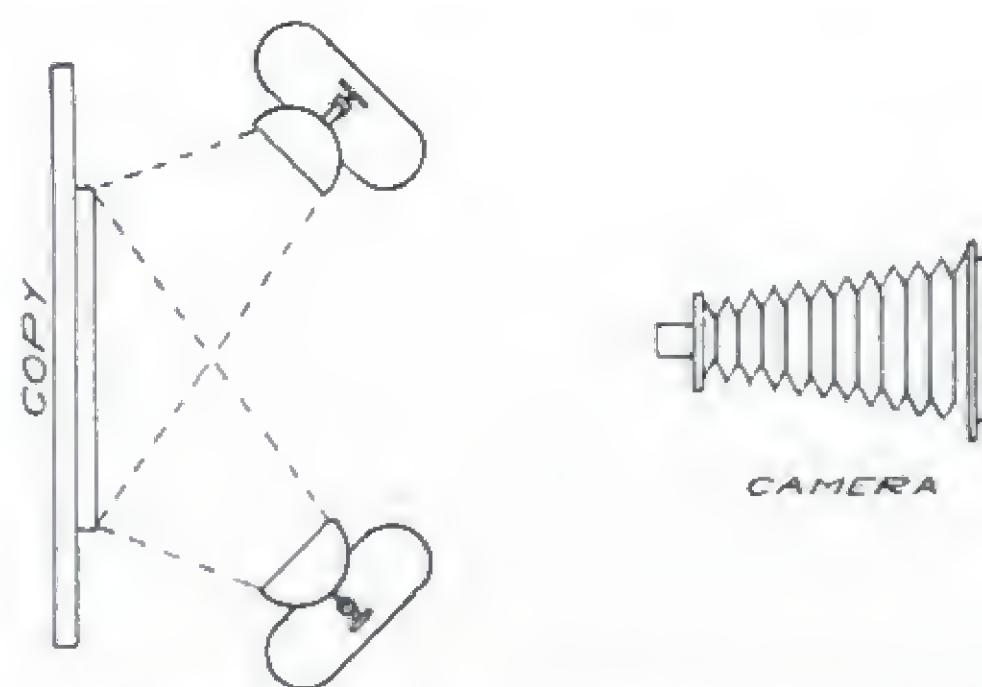


Fig. 2—Floor Plan of Set Up for Title Work Using 2 No. 110—6 PH 7 Units

The units with U-shaped tube (Fig. 1) are designed for lighting copy boards, title and animation work; small objects to be photographed and for printing, enlarging, etc. For copy work the outfits are arranged in pairs, one each side of the camera, as indicated in Fig. 2. For animation work, printing and enlarging the units may be used without the stand if placed on a shelf or table or suspended above the animation board. With the stand, however, the units can be more readily moved about the workshop.

Units with U-shaped tubes are available for both alternating and direct current. Specifications and data are as follows:

COOPER HEWITT LIGHT TAKES LESS CURRENT

COOPER HEWITT PHOTOGRAPHIC LIGHTING UNITS

ALTERNATING CURRENT UNIT—110 v.—No. 160— 6 PH 7

ALTERNATING CURRENT UNIT—220 v.—No. 260— 6 PH 7

Voltage Range—Connections for 93-111; 101-119; 109-127 or
186-222; 202-238; 218-254.

Cycles	60-50
Overall reflector dimensions, inches	31 x 10½ x 6 deep
Length and width of light opening, inches	25¾ x 9¾
Length of light source, inches	23¾
Number of tubes in unit	1
Total wattage of unit	450
Current cost per hour at 9c per K. W. hour	4c
Shipping weight in lbs.	159
Net weight in lbs.	80
Price of complete unit	\$120.00
Renewal tube specification	160—14T2U7
Renewal tube price	\$17.00

ALTERNATING CURRENT UNIT—110 v.—No. 160— 6 PH 8

ALTERNATING CURRENT UNIT—220 v.—No. 260— 6 PH 8

Same as Unit No. 160—6 PH 7, except that reflector is offset from auxiliary by a flexible lead and unit is furnished without stand.

Shipping weight in lbs.	89
Net weight in lbs.	44
Price of complete unit (Reflector, tube, auxiliary and flexible lead)	\$90.00

NOTE—Units for operation on 110 or 220 volts, 25-40 cycles, can be obtained. Prices and specifications furnished on request.

DIRECT CURRENT UNIT—No. 110—6 PH 7

Voltage Range—Automatic Adjustment	100-125
Overall reflector dimensions, inches	31 x 10½ x 6 deep
Length and width of light opening, inches	25¾ x 9¾
Length of light source, inches	23¾
Number of tubes in unit	1
Total wattage of unit	385
Current cost per hour at 9c per K. W. hour	3½
Shipping weight in lbs.	147
Net weight in lbs.	68
Price of complete unit	\$105.00
Renewal tube specification	110—14T2U7
Renewal tube price	\$16.00

DIRECT CURRENT UNIT—No. 110—6 PH 8

Same as Unit No. 110—6 PH 7, except that reflector is offset from auxiliary by a flexible lead and unit is furnished without stand.

Shipping weight in lbs.	72
Net weight in lbs.	26
Price of complete unit (Reflector, tube, auxiliary and flexible lead)	\$75.00

The units with the M-shaped tubes are made especially for photographic enlarging. This shape concentrates the light behind the negative and with a sheet of flashed opal or two sheets of ground glass gives perfect diffusion for negatives up to and including 8 x 10. The new design reflector has been modified to give greater covering power. This unit does not require condensing lenses.

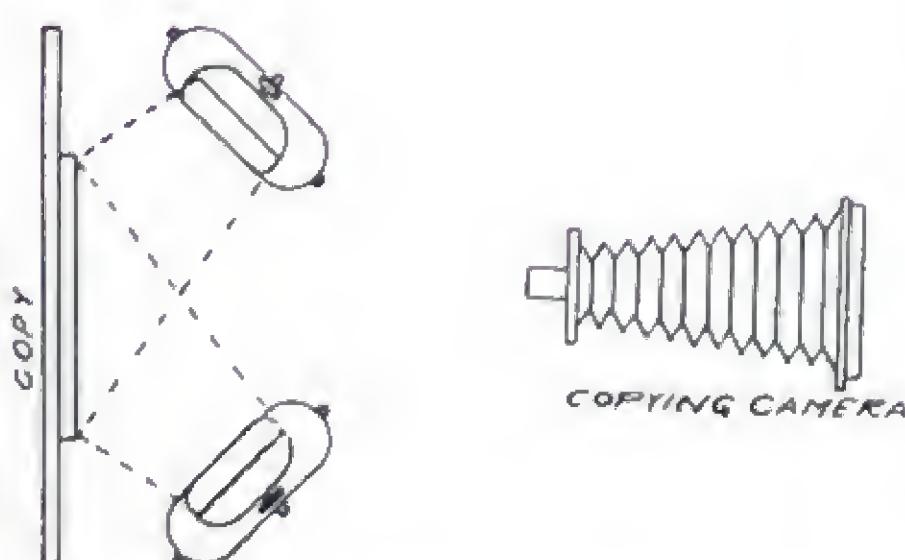
The M-shaped units are also frequently used in the photographic studio for special lighting. Used in this way, a high candle power light can be obtained, without causing discomfort to the sitter due to heat and glare.

Data and specifications are given for the M-shaped units for both alternating and direct current on next page.

COOPER HEWITT LIGHT IS FASTER



*Fig. 3—Unit No. 110—6 PH 11
with Reflector Vertical on Stand*



*Fig. 4—Copyboard Set Up Using
Two No. 110—6 PH 11 Units*



*Fig. 5—Unit
No. 110—6 PH 11 with Reflector
Tilted Forward to Horizontal
Position on Stand*

**ALTERNATING CURRENT UNIT—110 v.—No. 160—
6 PH 11**

**ALTERNATING CURRENT UNIT—220 v.—No. 260—
6 PH 11**

Voltage Range—Connections for 93-111; 101-119; 109-127 or 186-222; 202-238; 218-254.

Cycles	60-50
Overall reflector dimensions, inches	18½ x 14¼ x 5¼ deep
Length and width of light opening, inches	12½ x 14
Length of light source, inches	10½
Number of tubes in unit	1
Total wattage of unit	450
Current cost per hour at 9c per K. W. hour	4c
Shipping weight in lbs.	159
Net weight in lbs.	80
Price of complete unit	\$120.00
Renewal tube specification	110—14T2U11
Renewal tube price	\$19.00

**ALTERNATING CURRENT UNIT—110 v.—No. 160—
6 PH 12**

**ALTERNATING CURRENT UNIT—220 v.—No. 260—
6 PH 12**

Same as Unit No. 160—6 PH 11, except that reflector is offset from auxiliary by a flexible lead and unit is furnished without stand.

Shipping weight in lbs.	89
Net weight in lbs.	44
Price of complete unit (Reflector, tube, auxiliary and flexible lead)	\$95.00

DIRECT CURRENT UNIT—No. 110—6 PH 11

Voltage Range—Automatic Adjustment	100-125
Overall reflector dimensions, inches	18½ x 14¼ x 5¼ deep
Length and width of light opening, inches	12½ x 14
Length of light source, inches	10½
Number of tubes in unit	1
Total wattage of unit	385
Current cost per hour at 9c per K. W. hour	3½c
Shipping weight in lbs.	147
Net weight in lbs.	68
Price of complete unit	\$105.00
Renewal tube specification	110—14T2U11
Renewal tube price	\$18.00

DIRECT CURRENT UNIT—No. 110—6 PH 12

Same as Unit No. 110—6 PH 11, except that reflector is offset from auxiliary by a flexible lead and unit is furnished without stand.

Shipping weight in lbs.	72
Net weight in lbs.	26
Price of complete unit (Reflector, tube, auxiliary and flexible lead)	\$80.00

NOTE—Units for operation on 110 or 220 volts, 25-40 cycles, can be obtained. Prices and specifications furnished on request.

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